(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau





(43) International Publication Date 15 July 2004 (15.07.2004)

PCT

(10) International Publication Number WO 2004/059227 A1

(51) International Patent Classification7:

F25D 17/06.

(72) Inventors; and

- (21) International Application Number:
 - PCT/KR2003/002749
- (22) International Filing Date:

16 December 2003 (16.12.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 10-2002-0083289

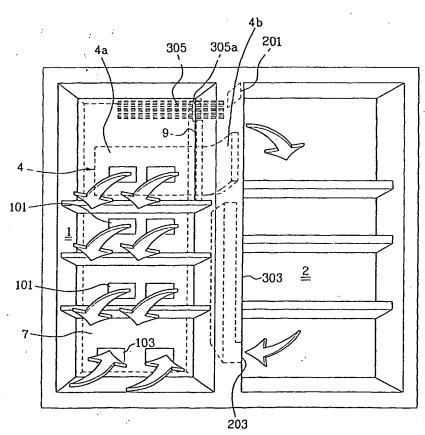
24 December 2002 (24.12.2002)

(71) Applicant (for all designated States except US): LG ELECTRONICS INC. [KR/KR]; 20, Yoido-dong, Youngdungpo-gu, 150-721 Seoul (KR).

- (75) Inventors/Applicants (for US only): SIM, Jae Sung [KR/KR]; 102-108, Samsung Town, 18-1, Sanho-dong, Happo-gu, Masan-si, 631-480 Gyeongsangnam-do (KR). SHIN, Jong Min [KR/KR]; 110-1003, Samsung Apt., Munhyun-dong, Nam-gu, 608-040 Busan-si (KR). KO, Young Hwan [KR/KR]: 114-28, Singil 1-dong, Yongdungpo-gu, 150-050 Seoul (KR).
- (74) Agents: BAHNG, Hae Cheol et al.; KIMS INTERNA-TIONAL PATENT & LAW OFFICE, 15th Floor Yo Sam Building, 648-23, Yeoksam-dong, Kangnam-gu, 135-080 Seoul (KR).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC,

[Continued on next page]

(54) Title: REFRIGERATOR



(57) Abstract: Refrigerator including a freezing chamber (1), a refrigerating chamber (2) at a side of the freezing chamber, a barrier (303) between the freezing chamber and the refrigerating chamber, the barrier having a freezing chamber cold air passage (A) formed therein, a partition plate (7) for compartmentalizing a freezing chamber cold air passage in rear of the freezing chamber where an evaporator (104) is positioned, the evaporator provided in a "¬" form along the freezing chamber cold air passage (A) and the refrigerating chamber cold air passage (B), a partition wall (9) between the freezing chamber cold air passage and the refrigerating chamber cold air passage, and a fan (305) mounted over the freezing chamber cold air passage and the refrigerating chamber cold air passage for discharging cold air flowing through respective cold air passage (10) to the freezing chamber and the refrigerating chamber respectively, thereby improving a cooling rate of the refrigerating chamber and providing more efficient refrigerator.

A COMPANY OF THE PARTY OF THE P

BEST AVAILABLE COPY